

Title (en)
ORGANIC ELECTROLUMINESCENCE DEVICE AND FUSED POLYCYCLIC COMPOUND FOR ORGANIC ELECTROLUMINESCENCE DEVICE

Title (de)
ORGANISCHE ELEKTROLUMINESZENZVORRICHTUNG UND KONDENSIERTE POLYCYCLISCHE VERBINDUNG FÜR ORGANISCHE ELEKTROLUMINESZENZVORRICHTUNG

Title (fr)
DISPOSITIF ÉLECTROLUMINESCENT ORGANIQUE ET COMPOSÉ POLYCYCLIQUE FUSIONNÉ POUR DISPOSITIF ÉLECTROLUMINESCENT ORGANIQUE

Publication
EP 3778610 A1 20210217 (EN)

Application
EP 20188927 A 20200731

Priority
KR 20190098127 A 20190812

Abstract (en)
An organic electroluminescence device of an embodiment includes a first electrode and a second electrode which face each other, and a plurality of organic layers disposed between the first electrode and the second electrode. At least one organic layer selected from the plurality of organic layers includes a fused polycyclic compound represented by Formula 1, and thus the organic electroluminescence device can exhibit improved luminous efficiency.

IPC 8 full level
C07F 5/02 (2006.01); **C09K 11/06** (2006.01); **H01L 51/00** (2006.01)

CPC (source: CN EP KR US)
C07F 5/02 (2013.01 - KR US); **C07F 5/027** (2013.01 - EP US); **C09K 11/06** (2013.01 - EP US); **H10K 50/11** (2023.02 - CN KR); **H10K 50/12** (2023.02 - KR); **H10K 50/14** (2023.02 - KR); **H10K 85/631** (2023.02 - EP); **H10K 85/636** (2023.02 - CN US); **H10K 85/657** (2023.02 - CN); **H10K 85/6572** (2023.02 - CN EP US); **H10K 85/6576** (2023.02 - US); **H10K 85/658** (2023.02 - CN EP KR); **H10K 50/11** (2023.02 - EP US); **H10K 2101/10** (2023.02 - US); **H10K 2101/20** (2023.02 - EP); **H10K 2101/30** (2023.02 - US)

Citation (search report)
• [A] CN 109192874 A 20190111 - KUNSHAN GOVISIONOX OPTOELECTRONICS CO LTD, et al
• [A] VALENTIN M HERTZ ET AL: "Polycyclic Aromatic Hydrocarbons Boron-Containing Polycyclic Aromatic Hydrocarbons: Facile Synthesis of Stable, Redox-Active Luminophores***", ANGEWANDTE CHEMIE INTERNATIONAL EDITION, 8 June 2015 (2015-06-08), XP055195020, Retrieved from the Internet <URL:http://onlinelibrary.wiley.com/store/10.1002/anie.201502977/asset/201502977_ftp.pdf?v=1&t=iarkptg6&s=b96a7819ef46855f2e7305fc0e7fae65cd62f21f> [retrieved on 20150611]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3778610 A1 20210217; **EP 3778610 B1 20221214**; CN 112397662 A 20210223; JP 2021028320 A 20210225; KR 20210019621 A 20210223; US 11839151 B2 20231205; US 2021050525 A1 20210218

DOCDB simple family (application)
EP 20188927 A 20200731; CN 202010782153 A 20200806; JP 2020128206 A 20200729; KR 20190098127 A 20190812; US 202016878338 A 20200519